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DEC 09 2014

KINTRONIC LABS INC.

Supporting the AM broadcast industry with quality products and services for over 60 years

November 11, 2014

Ms. Marlene Dortch, Secretary
Federal Communications Commission
445 12th Street, SW Rm. TW-B204
Washington, DC 20554

DOCKET FILE COPY ORIGINAL

Re: Ex Parte
Meetings With FCC
In The Matter of Revitalization of AM Service
MB Docket No. 13-249

Dear Ms. Dortch,

This is to advise that Thomas F. King, President of Kintronic Laboratories, Inc.; Dr. Stephen F. Smith, Consultant to Kintronic Laboratories, Inc.; Don Everist, PE, Cohen, Dippell and Everist; Kerry Plackmeyer, Director of Engineering, WBAL Radio in Baltimore, MD; and Dr. Chris Horne, CTO of Spectrum Velocity in Raleigh, NC; provided a presentation on three critical steps to revitalize the AM band listenership, as described in the attached letter, to Maria Kirby, FCC Chairman Tom Wheeler's Legal Advisor for the Media Bureau. The presentation was conducted on the 8th Floor Conference Room 2 on Thursday, November 6, 2014.

In separate meetings later in the afternoon of the same day this is to advise that Thomas F. King, President of Kintronic Laboratories, Inc.; Dr. Stephen F. Smith, Consultant to Kintronic Laboratories, Inc.; Don Everist, PE, Cohen, Dippell and Everist; Kerry Plackmeyer, Director of Engineering, WBAL Radio in Baltimore, MD; Dr. Chris Horne, CTO of Spectrum Velocity in Raleigh, NC; Bill Fox, President of Delta Electronics in Alexandria, VA; and Tom Wright, Principle Design Engineer for Delta Electronics provided the same presentation as well as a live demonstration of the potential improvement in AM receivers that could be realized as described in the attached letter. The following FCC staff were in attendance at different times:

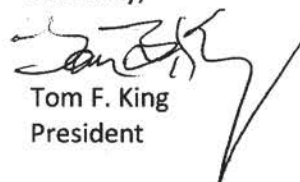
- FCC Commissioner Mignon Clyburn
- Adonis Hoffman, Chief of Staff, Senior Legal Advisor, Office of Commissioner Mignon Clyburn
- Clint Odom, Policy Director, Office of Commissioner Jessica Rosenworcel
- Erin McGrath, Commissioner O'Rielly's legal advisor on media issues

If there are any questions, please do not hesitate to contact me.

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Attachment

Sincerely,


Tom F. King
President

DEC 09 2014

FCC Mail Room



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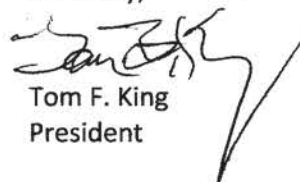
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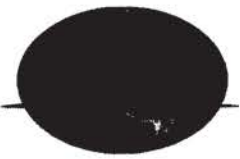
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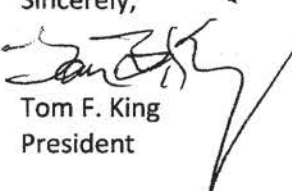
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Tom F. King
President

NEC 09 2014

FCC Mail Room



KINTRONIC LABS INC.

Supporting the AM broadcast industry with quality products and services for over 60 years

September 2, 2014

Subject: Meeting with FCC Commissioner Ajit Pai and Mr. Peter Doyle, Chief of the Audio Division of the FCC Media Bureau at the offices of the FCC in Washington, DC on Tuesday, September 23, 2014.

To All AM Broadcasters in the USA:

Kintronic Labs is concerned about the declining position of the AM radio service in the United States, which we reflected in our Reply Comments to the FCC NPRM Docket No. 13-249 on the subject of "AM Revitalization," issued on October 31, 2013. In the interest of preserving this great national resource for local public media, we have scheduled a meeting with FCC Commissioner Ajit Pai and Audio Media Chief, Mr. Peter Doyle, to address what we believe are the critical steps toward putting AM radio on a more competitive basis with FM as follows:

- (1) FCC enforcement of regulations relative to the power distribution industry and the consumer electronics industry that are not currently being enforced, resulting in a constantly worsening electromagnetic environment for AM radio service.
- (2) The need for parity between AM and FM receivers through the establishment of minimum technical standards for AM receivers that would become effective as soon as January 2016. We plan to demonstrate a comparison of full-bandwidth CQUAM AM stereo reception with a local FM station and with a typical AM receiver in a popular consumer multi-band receiver. The effects of adjusting the AM bandwidth from 2.5 to 10 kHz in 2.5-kHz steps will also be demonstrated.
- (3) The need for FCC authorization of AM synchronous boosters. Unlike FM translators, such on-channel boosters would serve to increase the AM stations' audiences while concurrently maintaining the future viability of the band. The related technique of wide-area AM synchronization for coverage improvement will also be addressed.

Referring to Step #2, it is absolutely essential that very close to full parity be established for new AM radio receivers versus their FM radio counterparts. This includes all key AM receiver performance attributes, including:

- (1) **Low internal noise floor**, well below the average AM-band atmospheric noise level. This includes all internal synthesizer and DSP circuitry within the receiver (and in the immediate environment for integrated automotive applications).
- (2) **High overall RF sensitivity, selectivity, and dynamic range**, to provide adequate amplification of weak signals, even in the presence of significant adjacent- and/or alternate-channel signals, especially in strong-signal environments. This would incorporate typical advanced, multi-stage AGC action, with appropriate interaction between the RF and IF AGC control mechanisms to maximize overall receiver dynamic range, including adaptive front-end attenuation for signal-overload protection in very strong-signal areas. Useful typical specs include: sensitivity – 1 μ V for 10-dB SNR; selectivity (adjacent-channel) – 25-50 dB (adaptive).
- (3) **Highly effective noise (EMI) rejection**, including staged RF and IF noise blanking, accompanied by appropriate audio blanking and/or expansion when required. Such features were developed and included in Motorola chip sets in the 1990's in the AMAX program, and are easily integrated into modern, high-density AM/FM receiver chips.
- (4) **Full 10-kHz audio bandwidth capability with low detector distortion**. This would obviously incorporate dynamic, signal-controlled bandwidth control (including AMAX-style adaptive 10-kHz notch filtering) as dictated by noise and adjacent-channel interference.
- (5) **Stereo capability**. If the receiver has FM stereo capability, it must have corresponding CQUAM decoding for AM.

Without fulfillment of the first three requirements (this also includes the associated AM antennas both for vehicles and for home use), basic AM reception will suffer significantly compared with FM. Without the last two, the output sound quality cannot be closely competitive with FM (i.e., 10-kHz full bandwidth on AM versus 15-kHz nominal for FM).

We therefore petition the FCC to mandate the following minimum allowable performance specifications for all AM receivers that will be manufactured and installed in new automobiles as of January 1, 2016:

Audio Bandwidth: 10 kHz typical, adaptive, with a minimum nominal bandwidth of 7.5 kHz

Signal-to-Noise Ratio: minimum 55 dB, preferably 60 dB

Sensitivity: -120 dBm for a signal-to-noise ratio (SNR) of 10 dB

Selectivity: 25-50 dB (adaptive filtering, using co-, adjacent-, and alternate-channel detection)

Dynamic Range: 100 dB

Noise Figure: 1 - 3 dB

Image Rejection: -50 dB

Intermod: IP_2 , IP_3 intercepts +10 to +40 dBm

IF: low with image-rejecting down-conversion, or double-conversion

Stereo Separation: minimum 25 dB

We need the full support and backing of you, the AM radio broadcasters, to be able to communicate with Commissioner Pai and Mr. Doyle how imperative it is that these measures be implemented on a fast approval track without further delay in order to put AM radio in a more competitive position with FM radio. **We request that you indicate your support simply by responding by email to ktl@kintronic.com stating "I approve".** Working together, we can restore AM radio to provide the high-fidelity audio reception that the public listening audience demands.

Respectfully Submitted,

Tom F. King

President